

IN THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of initiating a communication session comprising: interrogating a plurality of ~~one or more~~ communication networks by a wireless communication device to determine available quality of service levels and cost of service information;

determining at the wireless communication device a cost estimates of the communication session based on a the available quality of service levels and a quantity of information to be communicated, the quality of service levels comprising data rate information, error rate information and packet priority information and is based on an information content class;

presenting the cost estimates and quality of service levels for the communication networks to a user; and

initiating the communication session by the wireless communication device with a selected one of the ~~one or more~~ communication networks based on the associated cost estimate.

2. (Currently Amended) The method as claimed in claim [[1]] 6 wherein the quality of service levels includes is a first and a second quality of service level, and wherein the cost estimates include is a first and a second cost estimate, the method further comprising:

providing the first cost estimate of the communication session to a user of [[a]] the wireless communication device;

allowing the user to select [[a]] the second quality of service level for the communication session when the first cost estimate is not accepted;

providing [[a]] the second cost estimate of the communication session to the user based on the second quality of service level and the quantity of information; and

initiating the communication session when either the first or second cost estimate is accepted.

3. (Currently Amended) The method as claimed in claim 1 further comprising:

receiving data from [[a]] the communication network corresponding to the quality of service level desired by [[a]] the user of [[a]] the wireless communication device; and

determining network capabilities by the wireless communication device from a the communication network, the network capabilities comprising available quality of service levels and cost of service information, and

wherein determining the cost estimate includes estimating a content amount to determine the quantity of information to be communicated, the cost estimates being based on the estimated content amount and cost of service information for an available quality of service level substantially corresponding with the data received by the user.

4. (Currently Amended) The method as claimed in claim 3 wherein determining network capabilities comprises interrogating [[a]] the plurality of communication networks to determine the available quality of service levels and the cost of service information for each communication network of the plurality, and

wherein the method further comprises selecting, by the user, one of the communication networks based on the available quality of service levels and cost of service information.

5. (Currently Amended) The method as claimed in claim 3 wherein determining network capabilities comprises retrieving available quality of service levels and cost of service information for [[a]] the plurality of communication networks from a memory of [[a]] the wireless communication device.

6. (Currently Amended) The method as claimed in claim 1 further comprising:
comparing user credit availability information with the cost estimates for the communication session; and

initiating the communication session when the cost estimate for the selected communication network is not greater than a predetermined percentage of the user credit availability information.

7. (Original) The method as claimed in claim 6 wherein comparing the user credit availability information comprises comparing user credit availability information stored in a smart card readable by the wireless communication device.

8. (Currently Amended) The method as claimed in claim 6 further comprising the step of: refraining from initiating the communication session when the cost estimate for the selected communication network exceeds the user credit availability information; notifying a user when the cost estimate for the selected communication network exceeds the user credit availability information; and allowing the user to select a different quality of service level for the communication session when the cost estimate for the selected communication network exceeds the user credit availability information.

9. (Canceled)

10. (Currently Amended) The method as claimed in claim ~~[[1]]~~ 8 further comprising selecting the content class from one of a plurality of information content classes from a group including a conversational content class, a streaming content class, an interactive content class and a background content class, and wherein the quality of service level is based on the selected information content class.

11. (Currently Amended) The method as claimed in claim 1 wherein the quality of service levels include ~~[[is]]~~ a desired quality of service level for ~~[[a]]~~ the user, the method further comprising:

determining the desired quality of service level by prompting the user to select one of a plurality of ~~[[a]]~~ quality of service levels; using the selected quality of service level to provide the cost estimates; and receiving an input from the user to either reject or accept one of the presented cost estimates.

12. (Currently Amended) The method as claimed in claim 1 wherein the quality of service levels include ~~[[is]]~~ a desired quality of service level for ~~[[a]]~~ the user, the method further comprising:

determining the desired quality of service level by retrieving the desired quality of service level from a smart card coupled with ~~[[a]]~~ the wireless communication device;
using the desired quality of service level to ~~provide~~ present the cost estimates; and
receiving an input from the user to either reject or accept one of the presented cost estimates.

13. (Currently Amended) The method as claimed in claim 1 wherein a packet radio service network that provides packet data services to wireless communication devices in accordance with a packet data protocol (PDP),

wherein ~~[[a]]~~ one of the wireless communication devices is assigned a PDP address for communicating with the packet radio network during a plurality of communication sessions, wherein the quality of service levels include ~~[[is]]~~ a first and a second quality of service level, the method further comprising:

communicating using a first PDP address during a first of the communication sessions at the first quality of service level; and

communicating using a second PDP address during a second of the communication sessions at ~~[[a]]~~ the second quality of service level.

14. (Original) The method as claimed in claim 13 wherein a first content type is communicated during the first of the communication sessions at the first quality of service level, and a second content type is communicated during the second of the communication sessions at the second quality of service level.

15. (Currently Amended) The method as claimed in claim 13 wherein the first quality of service level has a first cost of service associated therewith, and the second quality of service level has a second cost of service associated therewith, and the method further comprises:

providing ~~the~~ a first cost estimate to ~~[[a]] the~~ user for the communication session to communicate a first content type based on the first cost of use and a quantity of information to be communicated; and

receiving an input from the user to either reject or accept the first cost estimate.

16. (Currently Amended) A method of providing cost of quality of service information to a user of a wireless communication device comprising:

interrogating, by the wireless communication device, a plurality of one or more communication networks to determine available quality of service levels and cost of service information;

presenting cost estimates to the user for the available quality of service levels; and

allowing ~~[[a]] the~~ user to select one of the ~~[[a]]~~ quality of service levels at the wireless communication device for ~~[[a]] the~~ communication session from the available determined quality of service levels, the quality of service levels comprising data rate information, error rate information and packet priority information and is based on an information content class; ~~and~~

~~providing the user a cost estimate for the communication session based on the selected quality of service level.~~

17. (Currently Amended) The method as claimed in claim 16 wherein the cost estimates include ~~[[is]]~~ a first and a second cost estimate, the method further comprising:

determining the first cost estimate by the wireless communication device for the communication session based on the selected quality of service level and a quantity of information to be communicated during the communication session; and

allowing the user to select ~~[[a]] the~~ second quality of service level when the first cost estimate is not accepted.

18. (Currently Amended) The method as claimed in claim 17 further comprising:

providing ~~[[a]] the~~ second cost estimate of the communication session to the user based on the second quality of service level and the quantity of information; and

initiating the communication session when either the first or the second cost estimate is accepted.

19. (Currently Amended) A method of communicating in a packet radio service network wherein a wireless communication device has a packet data protocol (PDP) address for establishing a plurality of communication sessions with the packet radio service network, wherein the packet radio network provides communications at a first quality of service level during a first of the communication sessions, and communications at a second quality of service level during a second of the communication sessions, the quality of service level comprising data rate information, error rate information and packet priority information and is based on an information content class, the method comprising:

interrogating, by the wireless communication device, the packet radio service network to determine available quality of service levels and cost of service information;

~~providing a~~ presenting, by the wireless communication device, a cost estimate to a user of the wireless communication device for the communication session to communicate during the first of the communication sessions based on a quantity of information; and

communicating during the first of the sessions at the first quality of service level when the cost estimate is accepted.

20. (Original) The method as claimed in claim 19 further comprising initiating a communication session with the packet radio service network when the cost estimate does not exceed an available user balance stored within a smart card readable by the wireless communication device.

21. (Original) The method as claimed in claim 19 wherein the cost estimate is a first cost estimate, the method further comprising:

providing a second cost estimate to the user for the communication session to communicate during the second of the communication sessions when the user rejects the first cost estimate; and

communicating during the second communication session at the second quality of service level when the user accepts the second cost estimate.

22. (Currently Amended) A wireless communication device comprising:

~~a memory to store a quality of service level;~~

a processor to determine ~~[[a]] cost estimates of a communication session based on the for~~ various quality of service levels and based on a quantity of information to be communicated, the quality of service levels comprising data rate information, error rate information and packet priority information and ~~[[is]] based on an information content class; and~~

a transceiver to interrogate ~~one or more~~ a plurality of communication networks to determine available quality of service levels and cost of service information, and to initiate the communication session with a selected one of the networks when the cost estimate is accepted;

a display to present the cost estimates for the quality of service levels to the user for used by the user in selection of one of the networks; and

an input element to accept a selection of one of the networks from the user based on the presented cost estimates.

23. (Currently Amended) The wireless communication device as claimed in claim 22 wherein the quality of service levels include ~~[[is]]~~ a first and a second quality of service level, and wherein the cost estimates include ~~is~~ a first and a second cost estimate, wherein the input element is to allow the wireless communication device further comprising an input/output element to provide the first cost estimate of the communication session to a user of the wireless communication device, to allow the user to select ~~[[a]]~~ the second quality of service level for the communication session when the first cost estimate is not accepted, and wherein the display is to provide ~~[[a]]~~ the second cost estimate of the communication session to the user based on the second quality of service level and the quantity of information, and

wherein the processor to cause the transceiver to initiate the communication session when the second cost estimate is accepted.

24. (Currently Amended) The wireless communication device as claimed in claim 22 wherein the network capabilities comprise available quality of service levels and cost of service information, and

the processor to estimate a content amount to determine the quantity of information to be communicated, and to determine the cost estimates based on the content amount and cost of service information for an available quality of service level corresponding with the quality of service level stored in the memory.

25. (Previously Presented) The wireless communication device as claimed in claim 22 wherein the transceiver comprises an interrogator to interrogate the plurality of communication networks to determine the available quality of service levels and cost of service information for each of the plurality of communication networks available to the wireless communication device.

26. (Currently Amended) The wireless communication device as claimed in claim 22 wherein the processor compares user credit availability information stored on a smart card readable by the wireless communication device with the cost estimates for the communication session, and causes the transceiver to initiate the communication session when the cost estimate for the selection network is not greater than the user credit availability information.

27. (Currently Amended) The wireless communication device as claimed in claim 22 wherein the processor compares user credit availability information with the cost estimate associated with the selected network for the communication session, causes the transceiver to initiate the communication session when the cost estimate associated with the selected network does not exceed a predetermined percentage of the user credit availability information, causes the transceiver to refrain from initiating the communication session when the cost estimate associated with the selected network exceeds the user credit availability information, notifies a user when the cost estimate associated with the selected network exceeds the user credit availability information, and allows the user to select a different quality of service level for the communication session when the cost estimate associated with the selected network exceeds the user credit availability information.

28. (Original) The wireless communication device as claimed in claim 22 wherein a wireless communication device is assigned a packet data protocol (PDP) address for communicating during a plurality of communication sessions with the packet radio network, the quality of service level is a first quality of service level, and wherein the packet radio network provides communications at the first quality of service level during a first of the communication sessions, and communications at a second quality of service level during a second of the communication sessions,

wherein the transceiver communicates at the first quality of service level during the first of the communication sessions, and communicates at the second quality of service level during the second of the communication sessions.

29. (Original) The wireless communication device as claimed in claim 28 wherein the first quality of service level has a first cost of use associated therewith, and the second quality of service level has a second cost of use associated therewith, and wherein the processor provides the cost estimate for the first of the communication sessions to communicate a first content type based on the first cost of use and a quantity of information of the first content type.

30. (Currently Amended) A computer readable medium having program instructions stored thereon for ~~performing a method of~~ initiating a communication session with a communication network when executed within a wireless communication device, the instructions to cause the wireless communication device to~~method comprising:~~

~~interrogating~~ interrogate one or more a plurality of communication networks to determine available quality of service levels and cost of service information;

~~determining~~ determine a first cost estimates of the communication session based on available a first quality of service levels and a quantity of information to be communicated, the quality of service levels comprising data rate information, error rate information and packet priority information and is based on an information content class;

present the cost estimates and quality of service levels for the communication networks to a user; and

~~initiating~~ initiate the communication session when the cost estimate is accepted.

31. (Currently Amended) The computer readable medium as claimed in claim 30 wherein the quality of service levels include ~~[[is]]~~ a first and a second quality of service level, and wherein the cost estimates include ~~[[is]]~~ a first and a second cost estimate, and wherein the program instructions configure the wireless communication device to:

provide the first cost estimate of the communication session to ~~[[a]]~~ the user of the wireless communication device;

allow the user to select ~~[[a]]~~ the second quality of service level for the communication session when the first cost estimate is not accepted;

provide ~~[[a]]~~ the second cost estimate of the communication session to the user based on the second quality of service level and the quantity of information; and

initiate the communication session when either the first or second cost estimate is accepted.

32. (Currently Amended) The computer readable medium as claimed in claim 30 wherein the programming instructions configure the wireless communication device to:

receive data corresponding to the quality of service level desired by a user; and

determine network capabilities from the communication network, the network capabilities comprising the available quality of service levels and cost of service information,

and wherein determining the cost estimate includes estimating a content amount to determine the quantity of information to be communicated, the cost estimate being based on the estimated content amount and cost of service information for an available quality of service level substantially corresponding with the data received by the user.

33. (Currently Amended) The computer readable medium as claimed in claim 30 wherein the programming instructions configure the wireless communication device to:

compare user credit availability information with the cost estimate for the selected communication network for the communication session; and

AMENDMENT UNDER 37 C.F.R. 1.116 – EXPEDITED PROCEDURE

Page 12

Serial Number: 10/000,051

Dkt: 884.550US1 (INTEL)

Filing Date: November 1, 2001

Title: SYSTEM AND METHOD FOR PROVIDING COST OF QUALITY OF SERVICE LEVELS IN A WIRELESS COMMUNICATION
DEVICE

Assignee: Intel Corporation

initiate the communication session when the cost estimate is not greater than a predetermined percentage of the user credit availability information.